## **CLAIMS**

## What is claimed:

1	1. An oscillating motor comprising:
2	a cylinder which can be filled with a hydraulic medium, said cylinder
3	having an inside wall with at least one rib extending radially inward;
4	a motor shaft supported in said cylinder with freedom to oscillate;
5	a sleeve concentric to said motor shaft;
6	at least one vane extending radially outward to said cylinder;
7	a pair of cylinder covers surrounding said motor shaft and forming working
8	chambers between said cylinder and said sleeve;
9	a pair of ring-shaped spaces between said motor shaft and said cylinder;
10	a pair of pressure-preloaded sealing arrangements in respective said ring-
11	shaped spaces sealing off said working chambers; and
12	an axial groove between said motor shaft and said sleeve, said axial
13	groove forming a pressure equalization channel connecting said ring-shaped spaces.
1	2. An oscillating motor as in claim 1 wherein said pressure
2	equalization channel is machined in said motor shaft.
1	<ol> <li>An oscillating motor as in claim 1 wherein said pressure</li> </ol>
2	equalization channel is formed in said sleeve.

1	4. An oscillating motor as in claim 1 further comprising a connection
2	which connects said pressure equalization channel to one of said working chambers.
1	5. An oscillating motor as in claim 4 wherein each said vane
2	comprises a sealing strip which contacts said cylinder, said connection opening against
3	said sealing strip, said sealing strip opening said connection to a working chamber as a
4	function of pressure.
1	6. An oscillating motor as in claim 3 wherein said motor shaft
2	comprises a pair of circumferential recesses which overlap respective said ring-shaped
3	spaces.
1	7. An oscillating motor as in claim 1 wherein said sleeve carries said
2	at least one vane.
1	8. An oscillating motor comprising:
2	a cylinder which can be filled with a hydraulic medium, said cylinder
3	having an inside wall with at least one rib extending radially inward;
4	a motor shaft supported in said cylinder with freedom to oscillate;
5	at least one vane extending radially outward from said shaft to said
6	cylinder;

a pair of cylinder covers surrounding said motor shaft and forming working

chambers between said cylinder and said motor shaft;

a pair of ring-shaped spaces between said motor shaft and said cylinder;

a pair of pressure-preloaded sealing arrangements in respective said ring
shaped spaces sealing off said working chambers; and

a first axial groove in each said vane connecting said ring-shaped spaces,

said first axial groove receiving a sealing strip which seals off the working chamber.

9. An oscillating motor as in claim 8 further comprising a second axial groove which adjoins said first axial groove at a shoulder in each said vane, said sealing strip being supported on said shoulder.

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